



# Hunters Point Naval Shipyard BCT Meeting



## Parcel E-2 Shoreline Oil Seep Update



# Shoreline Seepage



- Shoreline seepage noted near probe 86
  - Survey of material via real-time instrumentation reported 0.0 parts per million VOCs and 0% LEL.
  - BCT notified during June 20, 2013 site visit.
  - Temporary well installed and water sample collected on June 25, 2013.
  - Sample results included:
    - Diesel Range Organics at 1,600 ug/L
    - Motor Oil Range Organics at 1,300 ug/L
    - Ammonia as Nitrogen at 15,800 ug/L
- Area designated for future excavation by Draft Parcel E-2 Design Basis Report





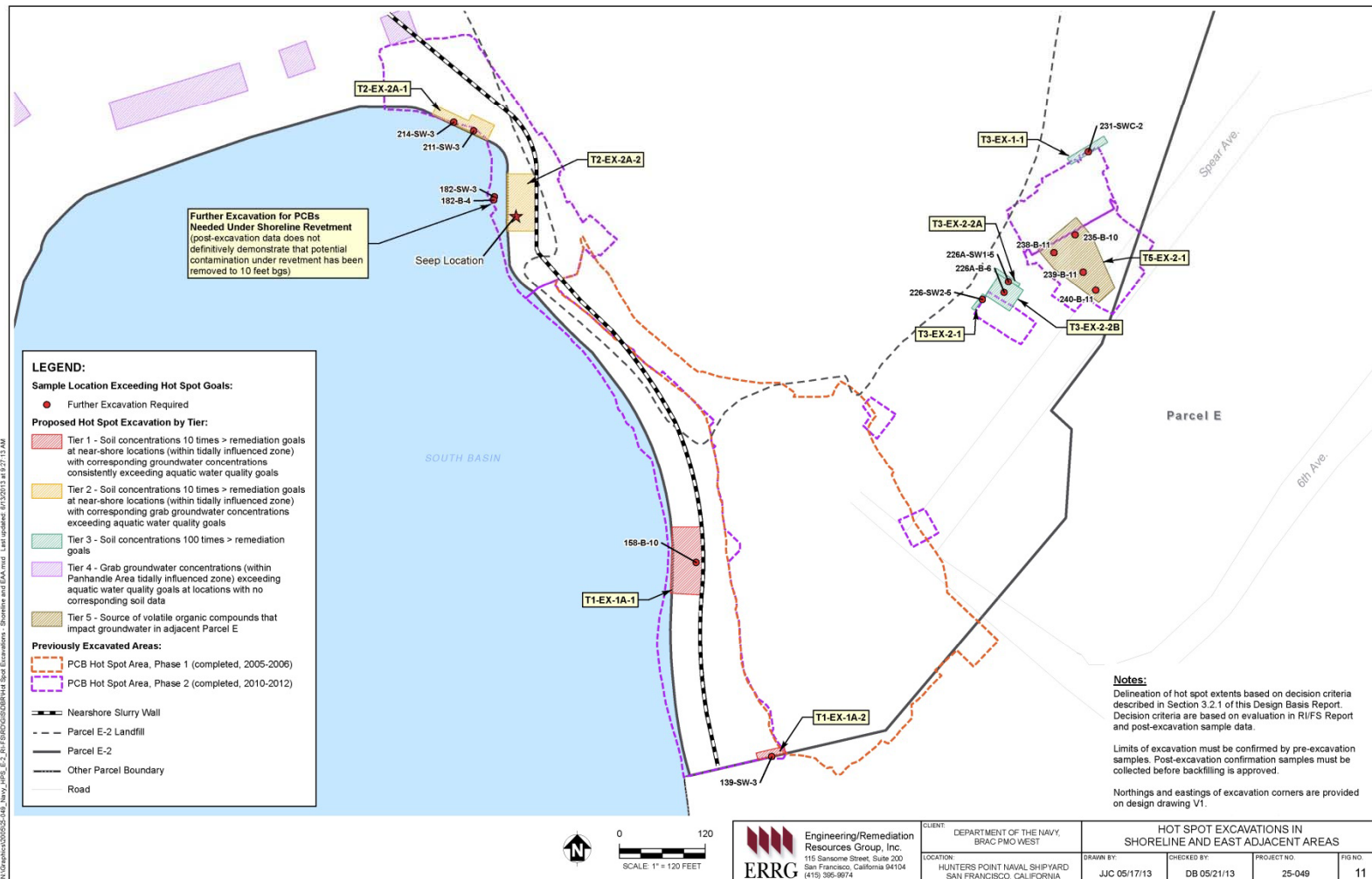
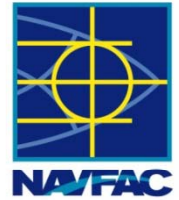


# Shoreline Seepage





# Design Basis Report Proposed Excavations





# Reactive Core Mat Installation



- Reactive Core Mat (RCM) to be installed as interim mitigation measure until Remedial Action in 2014.
  - Installation of 15' x 25' RCM on July 24, 2013.
  - RCM consists of reactive organically-modified bentonite media encapsulated between layers of permeable geotextile.
  - Geotextile allows water to pass through RCM, while organoclay media absorbs petroleum contaminants.
  - RCM placed on top of seepage via long-reach excavator, with edges buried in shallow anchor trenches.
  - RCM covered with a minimum of 6" clean imported sand.
  - Weekly visual inspections to be performed on RCM until Remedial Action in 2014.



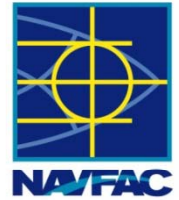


# Reactive Core Mat





# Reactive Core Mat Placement





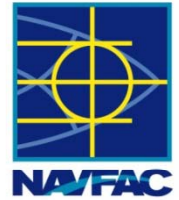


# Reactive Core Mat Placement





# Radiological Scan of Reactive Core Mat





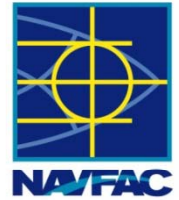


# Anchor Trench Installation





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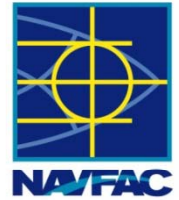


# Anchor Trench Installation





# Sand Cover Installation





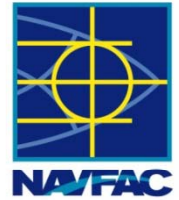


# Sand Cover Installation





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